

0022

CO-OP MINING COMPANY

P.O. Box 1245
Huntington, Utah 84528



Office (435) 687-2450
FAX (435) 687-2084

RECEIVED

DEC 9 1999

DIVISION OF OIL, GAS & MINING

December 7, 1999

Coal Program
Utah Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Copy Sharon and Ken

To Whom It May Concern,

Re: Water Monitoring Sites DH-4, SBC-9, Bear Canyon Mine, ACT/015/025, Emery County, Utah

This letter is to inform the Division that two water monitoring sites, located underground in the Bear Canyon No. 1 Mine (Blind Canyon Seam) are being abandoned.

Well DH-4 was located in the 3rd West Bleeder Section (See Plates 3-4A, 7-4). In August, 1999, retreat mining began in this section, eliminated further access to this well. Prior to abandonment, a final baseline water quality sample was taken from the well on July 29, 1999. The water quality information was submitted in the 3rd Quarter Water Monitoring report, and a copy is enclosed. Abandonment procedures consisted of sealing the bottom portion of the drillhole with bentonite, and then cementing the top 10' with cement in accordance with Section 3.6.3.1 or the MRP. The abandonment was completed on August 4, 1999. Retreat mining began on September 6, 1999.

Spring SBC-9 flows from a sandstone channel encountered at the North end of the 1st North Section (See Plates 3-4A, 7-4). Adverse roof conditions which have recently developed in this section have made access to this site extremely hazardous. In October, 1999, the decision was made to abandon this section and seal it off in accordance with MSHA requirements. A final baseline water quality sample was collected from this site on October 12, 1999. This information will be included in the 4th Quarter Water Monitoring Report and is enclosed. The section has been sealed in such a way as to allow flows from this area to pass through the 2nd East South gob area. It is anticipated that the water will eventually reach the current monitoring site SBC-13, where the water can continue to be monitored. The section was sealed in November, 1999.

It is also anticipated the retreat mining will require the abandonment of Well DH-2 in late December or early January.

The water monitoring schedule in the Mining and Reclamation plan will be updated in conjunction with the Wild Horse Ridge permit application to reflect the changes which have been discussed here.

If you have any questions, please call me at (435) 687-2450.

Thank You,

Charles Reynolds
Charles Reynolds,
Engineer



COMMERCIAL TESTING & ENGINEERING CO.

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ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1020
HUNTINGTON, UT 84528
TEL: (435) 653-2311
FAX: (435) 653-2436

August 17, 1999

C.W. MINING
P.O. Box 1245
Huntington UT 84528

Sample identification by
C. W. MINING

ID:DH-4

Rec'd 1200 hr.
Sampled 1030 hr.

Kind of sample Water
reported to us

Sample taken at C. W. Mining

Sample taken by C. W. Mining

Date sampled July 29, 1999

Date received July 29, 1999

FIELD MEASUREMENTS

pH 7.10
Depth 59'
Conductivity 675
Temperature 11.6°C

DISSOLVED METALS FILTERED AT LAB.

Analysis report no. 59-20307

Parameter	Result	MRL	Units	Method	Analyzed Date/Time/Analyst
Alkalinity, Bicarbonate	347	5	mg/l as HCO ₃	EPA 310.1	08-03-1999 0800 KP
Alkalinity, Carbonate	<5	5	mg/l as CO ₃	EPA 310.1	08-03-1999 0800 KP
Alkalinity, Total	284	5	mg/l as CaCO ₃	EPA 310.1	08-03-1999 0800 KP
Aluminum, Dissolved	<1	1	mg/l	EPA 202.1	08-05-1999 1443 SC
Anions	7.7	----	meq/l	-----	08-13-1999 0800 RJ
Arsenic, Dissolved	<0.01	0.01	mg/l	EPA 206.2	08-12-1999 1153 SC
Boron, Dissolved	0.2	0.1	mg/l	EPA 212.3	08-05-1999 0630 MK
Cadmium, Dissolved	<0.01	0.01	mg/l	EPA 213.1	08-05-1999 1228 SC
Calcium, Dissolved	80	1	mg/l	EPA 215.1	08-05-1999 1326 SC
Cations	7.2	----	meq/l	-----	08-13-1999 0800 RJ
Chloride	3	1	mg/l	EPA 300.0	07-30-1999 1051 MK
Conductivity	665	1	umhos/cm	SM2510-B	08-03-1999 0920 SC
Copper, Dissolved	<0.1	0.1	mg/l	EPA 220.1	08-05-1999 1154 SC
Hardness, Total	352	----	mg/l as CaCO ₃	SM2340-B	08-13-1999 0800 RJ
Iron, Dissolved	<0.1	0.1	mg/l	EPA 236.1	08-05-1999 0837 SC
Iron, Total	0.2	0.1	mg/l	EPA 236.1	08-05-1999 0837 SC
Lead, Dissolved	<0.1	0.1	mg/l	EPA 239.1	08-05-1999 1247 SC
Magnesium, Dissolved	37	1	mg/l	EPA 242.1	08-05-1999 1532 SC
Manganese, Total	<0.1	0.1	mg/l	EPA 243.1	08-05-1999 0926 SC
Manganese, Dissolved	<0.1	0.1	mg/l	EPA 243.1	08-05-1999 0926 SC
Molybdenum, Dissolved	<0.1	0.1	mg/l	EPA 246.1	08-05-1999 1501 SC
Nitrogen, Ammonia	<0.5	0.5	mg/l as N	EPA 350.3	08-02-1999 0830 MK
Nitrogen, Nitrate-Nitrite	<0.03	0.03	mg/l as N	EPA 300.0	07-30-1999 1051 MK
Nitrogen, Nitrite	<0.03	0.03	mg/l as N	EPA 300.0	07-30-1999 1051 MK

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

RJ Cormick

Huntington Laboratory



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C. W. MINING

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Depth 59'
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DISSOLVED METALS FILTERED AT LAB.

Analysis report no. 59-20307

Parameter	Result	MRL	Units	Method	Analyzed		
					Date/Time/Analyst		
Phosphorous, Total	<0.05	0.05	mg/l as P	SM4500-P-B, E	08-05-1999 0730	MK	
Potassium, Dissolved	1	1	mg/l	EPA 258.1	08-05-1999 1020	SC	
Selenium, Dissolved	<0.01	0.01	mg/l	EPA 270.2	08-12-1999 0951	SC	
Sodium, Dissolved	3	1	mg/l	EPA 273.1	08-05-1999 1048	SC	
Solids, Total Dissolved	414	10	mg/l	EPA 160.1	08-02-1999 0700	KP	
Sulfate	91	1	mg/l	EPA 300.0	07-30-1999 1051	MK	
Zinc, Dissolved	<0.01	0.01	mg/l	EPA 289.1	08-05-1999 1213	SC	
Cation/Anion Balance	-3.2	----	%		08-13-1999 0800	RJ	

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

RJ Cormier

Huntington Laboratory

MEMBER
ACIL

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November 9, 1999

C.W. MINING
P.O. Box 1245
Huntington UT 84528

Sample identification by
C. W. MINING

SBC-9

Kind of sample Water
reported to us

Rec'd 0950 hr.
Sampled 1800 hr.

Sample taken at C. W. Mining

Sample taken by C. W. Mining

Date sampled October 12, 1999

Date received October 14, 1999

FIELD MEASUREMENTS

pH 7.87
Flow 55 GPM
Conductivity 637
Temperature 11.4°C

DISSOLVED METALS FILTERED AT LAB.

Analysis report no. 59-20736

Parameter	Result	MRL	Units	Method	Analyzed		
					Date/Time/Analyst		
Alkalinity, Bicarbonate	364	5	mg/l as HCO ₃	EPA 310.1	10-22-1999 1430	KP	
Alkalinity, Carbonate	<5	5	mg/l as CO ₃	EPA 310.1	10-22-1999 1430	KP	
Alkalinity, Total	298	5	mg/l as CaCO ₃	EPA 310.1	10-22-1999 1430	KP	
Aluminum, Dissolved	<1	1	mg/l	EPA 202.1	10-22-1999 1300	SC	
Arsenic, Dissolved	<0.01	0.01	mg/l	EPA 206.2	11-03-1999 0800	MK	
Boron, Dissolved	0.1	0.1	mg/l	EPA 212.3	11-08-1999 0600	MK	
Cadmium, Dissolved	<0.01	0.01	mg/l	EPA 213.1	10-22-1999 1200	SC	
Calcium, Dissolved	78	1	mg/l	EPA 215.1	10-21-1999 1220	SC	
Chloride	4	1	mg/l	EPA 300.0	10-14-1999 1026	RJ	
Conductivity	593	1	umhos/cm	SM2510-B	10-26-1999 1020	SC	
Copper, Dissolved	<0.1	0.1	mg/l	EPA 220.1	10-22-1999 1130	SC	
Hardness, Total	331	----	mg/l as CaCO ₃	SM2340-B	11-03-1999 0930	RJ	
Iron, Dissolved	<0.1	0.1	mg/l	EPA 236.1	10-21-1999 0810	SC	
Iron, Total	<0.1	0.1	mg/l	EPA 236.1	10-21-1999 0810	SC	
Lead, Dissolved	<0.1	0.1	mg/l	EPA 239.1	10-22-1999 1210	SC	
Magnesium, Dissolved	33	1	mg/l	EPA 242.1	10-21-1999 1520	SC	
Manganese, Total	<0.1	0.1	mg/l	EPA 243.1	10-21-1999 0905	SC	
Manganese, Dissolved	<0.1	0.1	mg/l	EPA 243.1	10-21-1999 0905	SC	
Molybdenum, Dissolved	<0.1	0.1	mg/l	EPA 246.1	10-22-1999 1330	SC	
Nitrogen, Ammonia	<0.5	0.5	mg/l as N	EPA 350.3	11-08-1999 0830	SC	
Nitrogen, Nitrate-Nitrite	<0.03	0.03	mg/l as N	EPA 300.0	10-14-1999 1026	RJ	
Nitrogen, Nitrite	<0.03	0.03	mg/l as N	EPA 300.0	10-14-1999 1026	RJ	
Phosphorous, Ortho-PO ₄	<0.05	0.05	mg/l as P	EPA 300.0	10-14-1999 1026	RJ	
Potassium, Dissolved	1	1	mg/l	EPA 258.1	10-21-1999 0950	SC	

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

R. J. Cormier

Huntington Laboratory



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Analysis report no. 59-20736

Parameter	Result	MRL	Units	Method	Analyzed		
					Date/Time/Analyst		
Selenium, Dissolved	<0.01	0.01	mg/l	EPA 270.2	11-03-1999 1215	MK	
Sodium, Dissolved	6	1	mg/l	EPA 273.1	10-21-1999 1235	SC	
Solids, Total Dissolved	333	10	mg/l	EPA 160.1	10-18-1999 0600	KP	
Sulfate	41	1	mg/l	EPA 300.0	10-14-1999 1026	RJ	
Zinc, Dissolved	<0.01	0.01	mg/l	EPA 289.1	10-22-1999 1140	SC	

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